

INTERNATIONAL SEARCH REPORT

Application No

'GB2004/003065

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G12B21/08 G12B21/02 G12B21/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G12B G01B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 245 204 B1 (JING TIANWEI ET AL) 12 June 2001 (2001-06-12)	1-10, 13-18, 20-22, 24-31
A	figures 9,10 column 5, line 30 - column 7, line 34	11,12, 19,23, 32,33
	----- -/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *G* document member of the same patent family

Date of the actual completion of the international search

7 October 2004

Date of mailing of the international search report

25/10/2004

Name and mailing address of the ISA

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C(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 349 591 B1 (BROCARD BENJAMIN ET AL) 26 February 2002 (2002-02-26)	1,3,4,6, 14-19, 21,22, 28,29, 31-33
Y	figures 1,2,9	
A	column 6, line 10 - column 8, line 35	23,25,30 2,5, 7-13,24, 26,27
Y	----- PATENT ABSTRACTS OF JAPAN vol. 1997, no. 09, 30 September 1997 (1997-09-30) -& JP 09 119939 A (OLYMPUS OPTICAL CO LTD), 6 May 1997 (1997-05-06) abstract; figures 1-3	23,25
A		22
X	----- KATO N ET AL: "Reduction in feedback bandwidth of the force-controlled atomic force microscope using a polyimide cantilever" JAPANESE JOURNAL OF APPLIED PHYSICS, PART 1 (REGULAR PAPERS, SHORT NOTES & REVIEW PAPERS) JAPAN SOC. APPL. PHYS JAPAN, vol. 40, no. 11, November 2001 (2001-11), pages 6594-6599, XP002298387 ISSN: 0021-4922 figures 1-8 paragraphs '0001! - '0004!	6-10, 12-16, 20,21, 24,26-28
Y		
A		30 1-5,11, 17-19, 22,23, 25,29, 31,33
X	----- JARVIS S P ET AL: "A NEW FORCE CONTROLLED ATOMIC FORCE MICROSCOPE FOR USE IN ULTRAHIGHVACUUM" REVIEW OF SCIENTIFIC INSTRUMENTS, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, vol. 67, no. 6, 1 June 1996 (1996-06-01), pages 2281-2285, XP000590688 ISSN: 0034-6748 figure 1 paragraph '00II!	1-3,5,6, 14, 16-20,29
A		4,7-13, 15,21-33
	----- -/-	

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 44 35 635 A (MAX PLANCK GESELLSCHAFT ; INST PHYSIKALISCHE HOCHTECH EV (DE)) 5 June 1996 (1996-06-05) figures 3a-3e page 2, line 63 - page 4, line 12	6-10,13
A		1-5,11, 12,14-33
A	EP 0 557 743 A (IBM) 1 September 1993 (1993-09-01) figure 1 column 4, line 22 - column 7, line 35	1-33

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6245204	B1	12-06-2001	NONE
US 6349591	B1	26-02-2002	NONE
JP 09119939	A	06-05-1997	NONE
DE 4435635	A	05-06-1996	DE 4435635 A1 05-06-1996
EP 0557743	A	01-09-1993	US 5280341 A 18-01-1994 EP 0557743 A1 01-09-1993 JP 6042909 A 18-02-1994 JP 8020205 B 04-03-1996

VIII-4-1	<p>Declaration: Inventorship (only for the purposes of the designation of the United States of America) Declaration of Inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America:</p>	<p>I hereby declare that I believe I am the original, first and sole (if only one inventor is listed below) or joint (if more than one inventor is listed below) inventor of the subject matter which is claimed and for which a patent is sought.</p> <p>This declaration is directed to the international application of which it forms a part (if filing declaration with application).</p> <p>I hereby declare that my residence, mailing address, and citizenship are as stated next to my name.</p> <p>I hereby state that I have reviewed and understand the contents of the above-identified international application, including the claims of said application. I have identified in the request of said application, in compliance with PCT Rule 4.10, any claim to foreign priority, and I have identified below, under the heading "Prior Applications", by application number, country or Member of the World Trade Organization, day, month, and year of filing, any application for a patent or inventor's certificate filed in a country other than the United States of America, including any PCT international application designating at least one country other than the United States of America, having a filing date before that of the application on which foreign priority is claimed.</p>
VIII-4-1-1	Prior applications:	

		<p>I hereby acknowledge the duty to disclose information that is known by me to be material to patentability as defined by 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the PCT international filing date of the continuation-in-part application.</p> <p>I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.</p>
VIII-4-1-1-1	Name (LAST, First)	HUMPHRIS, Andrew, David, Laver
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VIII-4-1-1-5	Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	X <i>Andrew Humphris</i>
VIII-4-1-1-6	Date: (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	X 15-8-04

VIII-4-1-2-1	Name (LAST, First)	HOBBS, Jamie, Kayne
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VIII-4-1-2-6	Date (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	
VIII-4-1-3-1	Name (LAST, First)	MILES, Mervyn, John
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VIII-4-1-3-5	Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	<i>m. j. miles</i>
VIII-4-1-3-6	Date (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	12-9-'04

VIII-4-1-2-1	Name (LAST, First)	HOBBS, Jamie, Kayne
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VIII-4-1-2-3	Mailing address:	293 Greystones Road Greystones Sheffield, Yorkshire S11 7BX United Kingdom
VIII-4-1-2-4	Citizenship:	GB
VIII-4-1-2-5	Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	X <i>J. Hobbs</i>
VIII-4-1-2-8	Date (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	X <i>13.8.04</i>
VIII-4-1-3-1	Name (LAST, First)	MILES, Mervyn, John
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VIII-4-1-3-4	Citizenship:	GB
VIII-4-1-3-5	Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	
VIII-4-1-3-6	Date (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	